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DATE MAILED:

APPLICATION NO.	CATION NO. FILING DATE FIRST NAME		ENTOR	AT	ATTORNEY DOCKET NO.	
09/125,7	47 08/25/98	TOROSSIAN		F	TORO-0101-PU	
_			7	EX	AMINER	
JOHN A ARTZ LYON & ARTZ		HM12/0828		SHAHN ART UNIT	AN-SHAH.K PAPER NUMBER	
28333 TEL SUITE 250	EGRAPH ROAD)		,	1645	22	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

08/28/01

• •	Application No.	Applicant(s)					
Office Action Summons	09/125,747	TOROSSIAN, FERNAND NARBEY					
Office Action Summary	Examiner	Art Unit					
	Khatol S Shahnan-Shah	1645					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF FIHS COMMUNICATION. Estarsions of time may be available under the provisions of 37 CFR 1: after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If the period for reply specified above is less than thirty (30) days, a rep If the period for reply specified above is less than thirty (30) days, a rep If the period for reply specified above is less than there (30) and (136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) day will apply and will expire SIX (0) MONTHS from c, cause the application to become ABANDONE	mely filed /s will be considered timely, the mailing date of this communication. DI 036 U.S.C. § 133).					
Status 1) Responsive to communication(s) filed on 26.	April 2001 and 30 May 2001						
2a)⊠ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 9-16 is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>9-16</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ acce							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the E	xaminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority document 							
Certified copies of the priority document							
Copies of the certified copies of the pricapplication from the International Brace the attached detailed Office action for a list.	ureau (PCT Rule 17.2(a)).						
14) ☐ Acknowledgment is made of a claim for domes:	tic priority under 35 U.S.C. § 119	(e) (to a provisional application).					
 a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s),	5) Notice of Informal	ry (PTO-413) Paper No(s). <u>22</u> . Patent Application (PTO-152)					

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

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The Examiner of U.S. Patent application SN 09/125,757 has changed. In order to expedite
the correlation of papers with the application please direct all future correspondence to Examiner
Shahnan-Shah. Technology Center 1600, Art Unit 1645.

 The request filed on May 30, 2001, paper # 19 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/125,747 is acceptable and a CPA has been established. An action on the CPA follows

- Supplemental Amendment received May 30, 2001 paper # 20 is acknowledged.
- 4. Supplemental Information Disclosure received May 30, 2001 paper # 21 is acknowledged.
- 5. Amendment D after final received on 4/26/2001 was not entered based on CPA transmittal form received 5/30/2001. Box 1 was not marked on the form. Also supplemental amendment received 5/30/2001 did not ask for the entry of the amended claims. After a telephonic interview with the applicant's attorney on August 17, 2001 amendment D (claims 9-16) has been entered and claims are under consideration. (see summary interview report, paper # 22).

Supplemental Information Disclosure Statement

 Acknowledgment made on correction of the typographical error in the citation. And the addition of the proper serial number for the reference (08/347,322) has been noted.

Objection(s) Withdrawn

- The objection to the abstract made in paragraph 7 of the office action mailed 11/21/2000 (paper # 15) is withdrawn in light of applicant's Abstract submitted to the June 21, 2000 amendment.
- 8. The objection to claim 15 made in paragraph 16 of the office action mailed 11/21/2000

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(paper # 15) is withdrawn in light of applicant's amendment D, received on 4/26/2001.

Objection(s) Moot

9. The objection to a portion of claim 15 made in paragraph 16 of the office action mailed 11/21/2000 (paper # 15) is most in light of applicant's cancellation of that portion of the claim in amendment D, received on 4/26/2001.

Rejection(s) Withdrawn

Claim Rejections - 35 USC § 112, Second Paragraph

10. The rejection to claims 9-16 made in paragraph 15 of the office action mailed 11/21/2000 (paper # 15) under 35 USC § 112, Second Paragraph is withdrawn in light of applicant's amendment D, received on 4/26/2001.

Rejection(s) Maintained

Claim Rejections - 35 USC § 112, First Paragraph

 The rejection to claims 9-16 made in paragraph 15 of the office action mailed 11/21/2000 (paper #15) under 35 USC § 112, First Paragraph is maintained.

The specification still fails to set forth sufficient evidence showing that the claimed vaccine complex could be made and/or used with "dual molecules" of part (a) of amended claim 9 comprising a "functional amino acid arm" and a "genetic ribonucleic acid arm". No guidance has been provided as to their source and as to how they are produced.

Claim 12, which depends from claim 9, 10 or 11, recites the immunomodulatory and vaccine complex of the instant invention for use in the treatment of diseases caused by Helicobacter bacteria "by the production of antibodies". However, the specification on page 3,

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lines 3 and 4, states the "inefficacy" of the Helicobacter-specific antibodies in protecting an individual.

The specification does not enable a vaccine comprising the components recited in part (a) of claim 9. Instant specification does not provide a clear written description of "a functional amino acid arm, ensuring binding to a target, with a genetic RNA arm corresponding to the coded description of the composition of the functional arm" (claim 9). Whether or not these components are of bacterial or non-bacterial origin is not disclosed.

Furthermore, page 13 of the specification recites collagen type III as the "immunity adjuvant factor", and the complex as containing "amino acid sequences" of the collagen type III. However, claim 11 recites that the amino acids from collagen are selected from the various amino acids recited in the claim. The collagen type III is stated on page 13 to be characterized by "Amino acid sequences similar to" the "sequence" shown on page 13, wherein several individual amino acid residues are recited one below the other. No amino acid sequences are provided or identified specifically by a SEQ ID number. It is unclear what Applicant means by amino acid "sequences" are similar to the individual amino acids (not sequences) recited on page 13. With this description, one of ordinary skill in the art would not be able to understand whether the whole sequence is present in the complex, or any one of the recited amino acids is included in the complex, or a mixture of any of these amino acids is included in the complex, and therefore would not be able to make and/or use and/or reproducibly practice the invention without undue experimentation.

Further, the specification does not allow one of ordinary skill in the art to grasp the nature of the association between the multiple components present in the "complex". For example, the

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optimal amounts or proportions of different "bacterial membrane fractions", i.e., glycopeptides and/or lipopolysaccharides and the ribonucleic acid arm, that should be present in the complex such that the complex can accomplish its alleged therapeutic and/or preventive functions are not disclosed.

In summary, the actual invention is not described in such a way that one skilled in the art could grasp the invention and make and/or use the invention and/or reproducibly practice the invention with a reasonable expectation of success, without undue experimentation. The breadth of instant claims is not commensurate in scope with the enabling disclosure or evidence. In the absence of specific guidance and evidence, instant claims are viewed as not meeting the enablement provisions of 35 U.S.C. § 112, first paragraph.

Applicant's Arguments & Office Action Response

12. Applicant contends in amended D that these amendments have been made in order to overcome all of the Examiner's rejections and objections to the subject matter of claims 9-16 as originally presented and is sufficient to put all the claims in proper form for allowance. (see page 4, remarks of amendment D filed 4/26/2001). However for the reasons given in paragraph 11 of this office action the specification still fails to enable and set forth sufficient evidence showing that the claimed vaccine complex could be made and used by one of ordinary skill in the art without undue experimentation.

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Conclusion

13. Claims 9-16 stand rejected.

14. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khatol Shahnan-Shah whose telephone number is (703) 308-8896. The examiner can normally be reached on 7:30 AM - 4 PM from Monday through Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette F Smith, can be reached on (703) 308-3909. The fax phone number for the organization where this application or proceeding is assigned to is (703) 305-3014.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

WWW.S. Slahnan-Shah, BS, Pharm, MS

Biotechnology Patent Examiner

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MARK NAVARRO